The listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

1. (Previously Presented) An alkali-free aluminoborosilicate glass consisting of by weight % based on oxide,

$SiO_2$	> 58 - 65,
$B_2O_3$	> 6 - 11.5,
$Al_2O_3$	> 14 - 20,
MgO	> 3 – 6,
CaO	>4.5-10,
SrO	0 - 1.5,
BaO	> 1.5 - 6,
with SrO + BaO	> 3, and
ZnO	0 - < 2,

and essentially no alkali oxides.

2. (Previously Presented) An alkali-free aluminoborosilicate glass consisting of by weight % based on oxide,

$SiO_2$	> 58 - 65,
$B_2O_3$	> 6 - 11.5,
$Al_2O_3$	> 14 - 20,
MgO	> 3 - 6,
CaO	> 4.5 - 10,
SrO	0 - < 4,
BaO	> 2.5 - 6,
with SrO + BaO	> 3, and
ZnO	0 - 0.5,

and essentially no alkali oxides.

- 3. (Previously Presented) An aluminoborosilicate glass according to Claim 1, containing at most 5% by weight MgO based on oxide.
- 4. (Previously Presented) An aluminoborosilicate glass according to Claim 1, containing at least 60% by weight SiO<sub>2</sub> based on oxide.
- 5. (Previously Presented) An aluminoborosilicate glass according to Claim 1, containing more than 11% by weight MgO, CaO, SrO and BaO together based on oxide.

## 6-7. (Cancelled)

- 8. (Original) An aluminoborosilicate glass according to claim 1, having a ratio of MgO/CaO by weight of less than 1.
- 9. (Original) An aluminoborosilicate glass according to claim 1, having a ratio of MgO/CaO by weight of less than 0.7.
- 10. (Previously Presented) An aluminoborosilicate glass according to claim 1, containing at least 5% by weight CaO based on oxide.
- 11. (Previously Presented) An aluminoborosilicate glass according to claim 1, containing > 7 to  $\le 11\%$  by weight  $B_2O_3$  based on oxide.
- 12. (Previously Presented) An aluminoborosilicate glass according to claim 1, containing > 2.5% to  $\le 5\%$  by weight BaO based on oxide.
  - 13. (Cancelled)
- 14. (Previously Presented) An alkali-free aluminoborosilicate glass consisting of by weight % based on oxide,

$SiO_2$	> 58 - 65,
$B_2O_3$	> 6 - 11.5,
$Al_2O_3$	> 14 - 20,
MgO	> 3 - 6,
CaO	> 4.5 - 10,
SrO	0 - 1.5,
BaO	> 1.5 - 6,
with SrO + BaO	> 3, and
ZnO	$> 0 - \le 0.5$

and essentially no alkali oxides.

15. (Previously Presented) An alkali-free aluminoborosilicate glass consisting of by weight % based on oxide,

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 $SiO_2$ > 58 - 65,  $B_2O_3$ > 6 - 11.5,  $Al_2O_3$ > 14 - 20, MgO > 3 - 6, CaO > 4.5 - 10, SrO 0 - 1.5, > 1.5 - 6, BaO with SrO + BaO > 3, and ZnO  $> 0 - \le 1.5$ ,

and essentially no alkali oxides.

16. (Previously Presented) An alkali-free aluminoborosilicate glass consisting of by weight % based on oxide,

> 58 - 65,
> 6 – 11.5,
> 14 – 20,
> 3 - 6,
> 4.5 - 10,
0 - 1.5,
> 1.5 - 6,
> 3,
0 - < 2,
$\leq 0.5$ , and
$\leq 0.5$ ,

and essentially no alkali oxides.

- 17. (Previously Presented) An aluminoborosilicate glass according to Claim 2, containing at most 5% by weight MgO based on oxide.
- 18. (Previously Presented) An aluminoborosilicate glass according to Claim 2, containing at least 60% by weight SiO<sub>2</sub> based on oxide.
- 19. (Previously Presented) An aluminoborosilicate glass according to Claim 2, containing more than 11% by weight based on oxide MgO, CaO, SrO and BaO is greater together.

#### 20-21. (Cancelled)

- 22. (Original) An aluminoborosilicate glass according to claim 2, having a ratio of MgO/CaO by weight of less than 1.
- 23. (Original) An aluminoborosilicate glass according to claim 2, having a ratio of MgO/CaO by weight of less than 0.7.
- 24. (Previously Presented) An aluminoborosilicate glass according to claim 2, containing at least 5% by weight CaO based on oxide.
- 25. (Previously Presented) An aluminoborosilicate glass according to claim 2, containing > 7 to  $\le 11\%$  by weight  $B_2O_3$  based on oxide.
- 26. (Previously Presented) An aluminoborosilicate glass according to claim 2, containing > 2.5% to  $\le 5\%$  by weight BaO based on oxide.
  - 27. (Cancelled)
- 28. (Previously Presented) An alkali-free aluminoborosilicate glass consisting of by weight % based on oxide,

$SiO_2$	> 58 - 65
$B_2O_3$	> 6 – 11.5,
$Al_2O_3$	> 14 - 20,
MgO	> 3 - 6,
CaO	>4.5-10,
SrO	0 - < 4,
BaO	> 2.5 - 6,
with SrO + BaO	> 3, and
ZnO	$> 0 - \le 0.5$ ,

and essentially no alkali oxides.

29. (Previously Presented) An alkali-free aluminoborosilicate glass consisting of by weight % based on oxide,

SiO <sub>2</sub>	> 58 - 65,
$B_2O_3$	> 6 - 11.5,
$Al_2O_3$	> 14 - 20,
MgO	> 3 - 6,
CaO	> 4.5 - 10,
SrO	0 - 1.5,
BaO	> 1.5 - 6,
with SrO + BaO	> 3, and
ZnO	$> 0 - \le 2.0$ ,

and essentially no alkali oxides.

30. (Previously Presented) An alkali-free aluminoborosilicate glass consisting of by weight % based on oxide,

$SiO_2$	> 58 - 65,
$B_2O_3$	> 6 - 11.5,
$Al_2O_3$	> 14 - 20,
MgO	> 3 - 6,
CaO	> 4.5 - 10,
SrO	0 - < 4,
BaO	> 2.5 - 6,
with SrO + BaO	> 3,
ZnO	0 - 0.5,
$ZrO_2$	$\leq 0.5$ , and
$TiO_2$	$\leq 0.5$ ,

and essentially no alkali oxides.

- 31. (Previously Presented) An aluminosilicate glass according to claim 2, containing up to 3% by weight SrO based on oxide.
- 32. (Original) A substrate glass in thin-film photovoltaics or a display comprising an alkali-free aluminoborosilicate glass according to claim 1.
- 33. (Original) A TFT display or a thin-film solar cell comprising an alkali-free aluminoborosilicate glass according to claim 1.

- 34. (Original) A substrate glass in thin-film photovoltaics or a display comprising an alkali-free aluminoborosilicate glass according to claim 2.
- 35. (Original) A TFT display or a thin-film solar cell comprising an alkali-free aluminoborosilicate glass according to claim 2.

### 36-47. (Cancelled)

- 48. (Previously Presented)An aluminoborosilicate glass according to claim 1 that has a density of less than 2.6 g/cm<sup>3</sup>.
- 49. (Previously Presented)An alkali-free aluminoborosilicate glass consisting of by weight % based on oxide,

$SiO_2$	> 58 - 65,
$B_2O_3$	> 6 - 11.5,
$Al_2O_3$	> 14 - 20,
MgO	> 3 - 6,
CaO	>4.5-10,
SrO	0 - 1.5,
BaO	> 1.5 - 6,
with SrO + BaO	> 3,
ZnO	0 - < 2,
$ZrO_2$	0 - 2,
$TiO_2$	0 - 2,
with $ZrO_2 + TiO_2$	0 - 2,
$As_2O_3$	0 - 1.5,
$Sb_2O_3$	0 - 1.5,
$CeO_2$	0 - 1.5,
Cl	0 - 1.5,
F <sup>-</sup>	0 - 1.5,
$SO_4^{2-}$	0 - 1.5, and
wherein $As_2O_3 + Sb_2O_3 + CeO_2 + Cl^2 + F^2 + SO_4^{2-2}$	0 - 1.5,

and essentially no alkali oxides.

# 50. (Cancelled)

51. (Previously Presented) An alkali-free aluminoborosilicate glass consisting of by weight % based on oxide,

and essentially no alkali oxides.

#### 52-62. (Cancelled)

63. (Currently Amended) An alkali-free aluminoborosilicate glass consisting of by weight % based on oxide,

$SiO_2$	> 58 - 65,
$B_2O_3$	> 6 - 11.5,
$Al_2O_3$	> 14 - 20,
MgO	> 3 - 6,
CaO	> 4.5 - 10,
SrO	0 - 1.5,
BaO	> 1.5 - 6,
with SrO + BaO	> 3,
ZnO	0 - < 2,
$\frac{Z_{\Gamma}O_2}{}$	0-2,
$TiO_2$	0 - 2,
with $ZrO_2 + TiO_2$	<del>0-2,</del>
$As_2O_3$	0 - 1.5,
$Sb_2O_3$	0 - 1.5,
SnO₂	0 - 1.5,

64. (Currently Amended) An alkali-free aluminoborosilicate glass consisting of by weight % based on oxide,

6:0	
$SiO_2$	> 58 $-$ 65,
$B_2O_3$	> 6 - 11.5,
$Al_2O_3$	> 14 - 20,
MgO	> 3 - 6,
CaO	> 4.5 - 10,
SrO	0 - < 4,
BaO	> 2.5 - 6,
with SrO + BaO	> 3,
ZnO	0 - 0.5,
$Z_{rO_2}$	0-2
$TiO_2$	0-2,
with ZrO <sub>2</sub> + TiO <sub>2</sub>	0-2,
$As_2O_3$	0 - 1.5,
$Sb_2O_3$	0-1.5,
$SnO_2$	0 - 1.5,
$CeO_2$	0 - 1.5,
CI.	0 - 1.5,
F <sup>-</sup>	0 - 1.5,
$SO_4^{2-}$	0 - 1.5, and
wherein $As_2O_3 + Sb_2O_3 + SnO_2 + CeO_2 + Cl^2 + F^2 +$	$SO_4^{2-}$ 0 – 1.5,
and essentially no alkali oxides, and does not contain $SnO_2$ or	

65. (Currently Amended) An alkali-free aluminoborosilicate glass consisting of by weight % based on oxide,

> 58 – 65,
> 6 - 11.5,
> 14 - 20,
> 3 - 6,
> 4.5 - 10,
0 - 1.5,
> 1.5 - 6,
> 3,
0 - < 2,
0-2,

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TiO<sub>2</sub>
                                                                                    0 - 2,
              with ZrO2 + TiO2
                                                                                    0-2
              As_2O_3
                                                                                    0 - 1.5,
              Sb<sub>2</sub>O<sub>3</sub>
                                                                                    0 - 1.5,
              SnO<sub>2</sub>
                                                                                    0 - 1.5
              Cl
                                                                                    0 - 1.5,
              F
                                                                                    0 - 1.5,
               SO_4^{2-}
                                                                                    0 - 1.5, and
              wherein As_2O_3 + Sb_2O_3 + SnO_2 + Cl + F + SO_4^2
                                                                                    0 - 1.5,
and essentially no alkali oxides, and does not contain SnO<sub>2</sub> or and ZrO<sub>2</sub>.
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66. (Currently Amended) An alkali-free aluminoborosilicate glass consisting of by weight % based on oxide,

67-68. (Cancelled)